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1. (Once Amended) An optical add-drop multiplexing (OADM) device comprising:

a wavelength adapter module for transforming unstabilized non-monochromatic or monochromatic light energy into one or more channels of stabilized monochromatic light energy having one or more predefined wavelength regions; and

a filter module for at least one of dropping, adding, and recombining one or more channels of stabilized monochromatic light energy having one or more predefined wavelength regions, whereby information traffic carried by an optical waveguide is substantially increased; and wherein the OADM device is part of a SONET optical network.

Please add the following new claim:

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(NEW) An optical add-drop multiplexing (OADM) device comprising:

a wavelength adapter module for transforming unstabilized non-monochromatic or monochromatic light energy into one or more channels of stabilized monochromatic light energy having one or more predefined wavelength regions, wherein the wavelength adapter module further comprises a optical feedback assembly comprising a Bragg grating coupled to an optical waveguide; and

a filter module for at least one of dropping, adding, and recombining one or more channels of stabilized monochromatic light energy having one or more predefined wavelength regions, whereby information traffic carried by an optical waveguide is substantially increased.

